

**Bonneville Power Administration
Fish and Wildlife Program FY98 Watershed Proposal Form**

Section 1. General administrative information

Title **Mill Creek Watershed Project**

Bonneville project number, if an ongoing project 8013

Business name of agency, institution or organization requesting funding
Kalispel Tribe of Indians

Business acronym (if appropriate) KNRD

Proposal contact person or principal investigator:

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Subcontractors.

Organization	Mailing Address	City, ST Zip	Contact Name

NPPC Program Measure Number(s) which this project addresses.

10.8B.14, 10.8B.15, 10.8B.26, 11.3D.6, 11.3E

NMFS Biological Opinion Number(s) which this project addresses.

Does Not Apply

Other planning document references.

Kalispel Natural Resource Department (KNRD). 1997. Fish and Wildlife Management Plan.

Resident Fish managers Caucus. 1997. Multi Year implementation plan for resident fish protection, enhancement, and mitigation in the Columbia River Basin. Columbia Basin Fish and Wildlife Authority. Portland, OR..

Subbasin.
Pend Oreille

Short description.

Assessment and analysis of watershed conditions to develop recommendations that best protect, enhance and manage aquatic and terrestrial habitat within the watershed.

Section 2. Key words

Mark	Programmatic Categories	Mark	Activities	Mark	Project Types
	Anadromous fish		Construction	X	Watershed
X	Resident fish		O & M		Biodiversity/genetics
*	Wildlife		Production		Population dynamics
	Oceans/estuaries	*	Research	*	Ecosystems
	Climate	*	Monitoring/eval.		Flow/survival
*	Other	X	Resource mgmt		Fish disease
		*	Planning/admin.		Supplementation
		*	Enforcement	*	Wildlife habitat en-
			Acquisitions		hancement/restoration

Other keywords.

Section 3. Relationships to other Bonneville projects

Project #	Project title/description	Nature of relationship
9500100	Kalispel Tri Resident Fish Project	Complimentary
9700300	Box Canyon Watershed Project	Complimentary
9106000	Pend Oreille Wetlands Wildlife Mitigation Project	Complimentary
9700400	Resident Fish Stock Status Above Chief Joseph and Grand Coulee Dams	Complimentary
9106001	Pend Oreille Wetlands II	Complimentary

Section 4. Objectives, tasks and schedules

Objectives and tasks

Obj 1,2,3	Objective	Task a,b,c	Task
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1	Initiate watershed assessment	a	Assemble all information previously collected on watershed
2	Complete synthesis of watershed assessment information.	b	Find information gaps
3	Conduct watershed analysis from synthesized assessment information	c	Fill information gaps through use of field and research methods
4	Formulate enhancement, protection and management recommendations	d	Combine information to develop watershed analysis
5	Implement enhancement, protection and management recommendations	e	Detail through analysis of watershed enhancement to develop enhancement and protection measures
6	Monitoring and Evaluation of recommendations	f	Prioritize enhancement, protection and management recommendations
		g	Implement recommendations by priority
		h	Develop a monitoring and evaluation plan using watershed assessment as baseline
		i	Initiate monitoring and evaluation
		j	Analyze information from monitoring and evaluation and determine effectiveness of recommendations
		k	Reporting, monthly, quarterly, annual and final reports

Objective schedules and costs

Objective #	Start Date mm/yyyy	End Date mm/yyyy	Cost %
1	1/1998	12/1998	9.50%
2	1/1999	12/1999	7.40%
3	1/1999	12/1999	7.35%
4	1/1999	12/1999	7.35%
5	1/2000	12/2001	50.00%
6	1/2002	12/2003	18.40%
			TOTAL 100.00%

Schedule constraints.

Subject to Stochasticity

Completion date.

12/2003+

Section 5. Budget***FY99 budget by line item***

Item	FY98	FY99
Personnel	\$25,600	\$52,600
Fringe benefits	\$8,500	\$13,300
Supplies, materials, non-expendable property	\$2,000	\$5,000
Operations & maintenance	0	\$0
Capital acquisitions or improvements (e.g. land, buildings, major equip.)	\$5,000	\$5,000
PIT tags	# of tags: 0	\$0
Travel	\$1,500	\$2,500
Indirect costs	\$8,500	\$15,700
Subcontracts	0	\$25,000
Other	0	\$0
TOTAL		\$119,100

Outyear costs

Outyear costs	FY2000	FY01	FY02	FY03
Total budget	\$135,000	\$135,000	\$49,500	\$49,500
O&M as % of total				

Section 6. Abstract

Past land use and additional human impact has lead to the severe degradation of some watersheds in the Pend Oreille Subbasin. This project is intended to catalog conditions, analyze and enhance the watershed to a higher quality aquatic and terrestrial habitat. The project will be conducted in phases. The initial phases will be directed at conducting a watershed analysis. The final phases are intended to implement and monitor enhancement, protection and management recommendations generated from the watershed analysis. The entire process is intended to determine the overall condition of the watershed, and to enhance, protect and best manage the watershed. Other goals are to establish better communication and working links between local, state, and federal agencies, as well as, private landowners.

Implemented recommendations will have positive impacts on fish and wildlife through the improvement and protection of aquatic and terrestrial habitat within the watershed. The project will be complimentary to ongoing BPA projects currently being implemented by the KNRD. All objectives and goals for the project are intended to correspond with sections 10.8B.14 and 10.8B.15, 10.8B.26 as well as, sections 11.3D.6 and 11.3E.

Section 7. Project description

a. Technical and/or scientific background.

Land Use practices coupled with a myriad of other circumstances and impacts have combined to irrevocably alter the condition of many watersheds present within the Pend Oreille Subbasin (KNRD, 1996). The Mill Creek Watershed project within the Pend Oreille Subbasin is intended to develop a broad scope investigation to develop overall goals, objectives, tasks, and recommendations to restore both aquatic and terrestrial habitat within the Mill Creek Watershed. Mill Creek Watershed has a long history of human impact through extractive land use (e.g., timber harvest and roads, etc.). These activities have contributed to the degradation of riparian and upland areas and were the main contributors to introducing an overabundance of sediment into the streams (Kalispel, 1996). Cumulative effects of these processes have lead to a wholesale reduction in the quality of both aquatic and terrestrial habitat for Mill Creek Watershed (Kalispel, 1995, Kalispel, 1996, Kalispel, 1997). Examples of commonly recognized problems in the watersheds of the Pend Oreille Subbasin are mass wasting, hillslope instability, point and nonpoint sediment sources and a lack of large woody debris recruitment. These and other impacts have limited the quality of habitat for endangered and threatened aquatic and terrestrial species present within the Pend Oreille Subbasin.

The project would directly mesh with the other BPA funded projects currently under implementation at the Kalispel Tribe. Information, data, equipment and expertise can be utilized between all projects. The product produced from this project will directly contribute to achieving the standard objectives and biological objectives and end products detailed in the Northwest Power Planning Council, Columbia River Basin Fish and Wildlife Program, Resident Fish and Wildlife Amendments, 1995 (section 10.8B.14, 10.8B.15, 10.8B.26, 11.3D.6, and 11.3E).

b. Proposal objectives.

1. Conduct a watershed assessment.
2. Analyze compiled information.
3. Develop enhancement, protection and management strategies from synthesized watershed assessment information.
4. Develop recommendations that are directed at helping to attain Biological Objectives in the FWP Section 10 For Kalispel Resident Fish Project.
5. Develop recommendations that are directed at achieving standard objectives and biological objectives within the Resident Fish Multi Year Implementation Plan.

6. Implement recommendations in the form of “on the ground” work.
7. Monitor and evaluate effectiveness of recommendations.
8. Produce a watershed analysis report and recommendations, annual reports detailing yearly activities and findings, and a project summary report at the end of the project to detail results, efforts and impacts of the project.
9. Create a stronger relationship between the Tribe, agencies and landowners to develop an efficient mode of communication and cooperation to best manage watershed resources.

c. Rationale and significance to Regional Programs.

The Mill Creek Watershed Project will address the need for aquatic and terrestrial habitat enhancement, protection and management in a watershed where multiple landowners (state, federal and private) actively participate with the Kalispel Tribe in management of natural resources (Kalispel Natural Resource Department 1997). The Kalispel Natural Resource Department is currently involved in a local watershed committee that has been formed to develop and implement on the ground work and education programs to benefit aquatic and terrestrial habitat and species in the Pend Oreille Subbasin. This committee will be beneficial to aiding in the success of this project.

d. Project history

Does Not Apply

e. Methods.

The project will be conducted in 6 phases. Phase 1; organization and compilation of existing information. Phase 2; initiate and complete watershed assessment, and completion of synthesis of watershed assessment information. Phase 3; conduct a watershed analysis from the complete watershed assessment. Phase 4; develop recommendations for enhancement, protection and management. Phase 5; implement enhancement, protection and management recommendations. Phase 6, Monitor and evaluate the effectiveness of implemented recommendations.

The watershed data assessment and analysis will be conducted using the Washington State Department of Natural Resources (DNR), Watershed Analysis Procedures Manual; the basic methodology includes a process where the watershed will be broken into 6 Modules. Each module examines a specific facet of the watershed process (e.g., channel characteristics, riparian condition, roads, etc.). Information from each module is compiled and areas of concern from modules are compared to determine limiting factors for watershed condition. From this product recommendations for enhancement, protection and management can be derived. G.I.S. will be used to analyze both watershed analysis data and monitoring and evaluation information. The watershed analysis will be used as a baseline for monitoring and evaluation of the effectiveness of implemented recommendations.

Individuals from local, state, federal agencies and private landowners will be involved in all portions of the assessment, analysis, recommendations and implementation process.

f. Facilities and equipment.

The Kalispel Natural Resource Department (KNRD) has suitable facilities and equipment required to implement the project. Any field equipment the KNRD does not own that is required will be purchased as specific needs are identified. The project will utilize the Geographic Information System that the Joint Stock Assessment (Project # 9700400) has developed. Geographic Information System will be an integral tool to analyzing the watershed assessment information.

g. References.

Kalispel Natural Resource Department (KNRD). 1997. Fish and Wildlife Management Plan.

Kalispel Natural Resource Department (KNRD). 1997. Kalispel Resident Fish Project, Annual Report 1995.

Kalispel Natural Resource Department (KNRD). 1997. Kalispel Resident Fish Project, Annual Report 1996.

Northwest Power Planning Council. 1995. Columbia River Basin Fish and Wildlife Program: Resident Fish and Wildlife Amendments, September 13, 1995.

Resident Fish managers Caucus. 1997. Multi Year implementation plan for resident fish protection, enhancement, and mitigation in the Columbia River Basin. Columbia River Basin Fish and Wildlife Authority. Portland, OR.

Washington State Department of Natural Resources. 1997. Watershed Analysis Procedures Manual.

Section 8. Relationships to other projects

This project is related to the projects listed in section 3. This project is complimentary to those projects. The goals and objectives of this project will assist in attaining the standard objectives and biological objectives of the projects listed in section 3. The project is intended to utilize information and expertise from those separate projects.

The project will create the opportunity to further strengthen working relationships with local, state, and federal agencies, as well as, with private landowners. This project will coordinate with an existing watershed committee within the Pend Oreille Subbasin to further working relationships in the subbasin.

Section 9. Key personnel

Individuals working on this project will require a wide range of professional skills. All individuals (including subcontractors) working on this project will meet or exceed

specific qualifications needed to implement this project as outlined by the Kalispel Tribe of Indians.

Section 10. Information/technology transfer

Information will be in the form of annual reports, scientific reports, public presentations and Kalispel Tribal internal documents available to the public upon request.